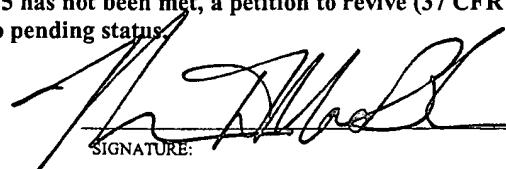


FORM PTO-1390 (REV 10-2000)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER 9138-0032
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371				U.S. APPLICATION NO. (If known, see 37 CFR 1.5) N/A 09/806540
INTERNATIONAL APPLICATION NO. PCT/US99/23012	INTERNATIONAL FILING DATE 01 October 99	PRIORITY DATE CLAIMED 01 October 98		
TITLE OF INVENTION Magnetic Switching of Charge Separation Lifetimes in Artificial Photosynthetic Reaction Centers				
APPLICANT(S) FOR DO/EO/US Gust, John D., Jr., Moore, Ana L., & Moore, Thomas A.				
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:				
<ol style="list-style-type: none"> <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. <input checked="" type="checkbox"/> This is an express request to promptly begin national examination procedures (35 U.S.C. 371(f)). <input type="checkbox"/> The US has been elected by the expiration of 19 months from the priority date (PCT Article 31). <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 				
Items 11 to 16 below concern document(s) or information included:				
<ol style="list-style-type: none"> <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. <input type="checkbox"/> A FIRST preliminary amendment. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. <input type="checkbox"/> A substitute specification. <input checked="" type="checkbox"/> A change of power of attorney and/or address letter. <input type="checkbox"/> Other items or information: 				

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) N/A	INTERNATIONAL APPLICATION NO. PCT/US99/23012	ATTORNEY'S DOCKET NUMBER 9138-0032	
<p>17. <input checked="" type="checkbox"/> The following fees are submitted:</p> <p>BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)):</p> <p>Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO \$1000.00</p> <p>International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$860.00</p> <p>International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$710.00</p> <p>International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$690.00</p> <p>International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4) \$100.00</p>		CALCULATIONS PTO USE ONLY	
ENTER APPROPRIATE BASIC FEE AMOUNT =		\$ 100.	
<p>Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).</p>		\$ 0	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	- 20 =		X \$18.00 \$ 0
Independent claims	- 3 =		X \$80.00 \$ 0
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$270.00 \$ 0
TOTAL OF ABOVE CALCULATIONS =		\$ 100.	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.		\$ 50.	
SUBTOTAL =		\$ 50.	
<p>Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).</p>		\$ +	
TOTAL NATIONAL FEE =		\$	
<p>Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property</p>		+ \$	
TOTAL FEES ENCLOSED =		\$ 50.	
		Amount to be refunded: \$	
		charged: \$	
<p>a. <input checked="" type="checkbox"/> A check in the amount of \$ 50.00 to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 070135. A duplicate copy of this sheet is enclosed.</p>			
<p>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</p>			
<p>SEND ALL CORRESPONDENCE TO:</p> <p>Thomas D. MacBlain Gallagher & Kennedy 2575 East Camelback Road Phoenix, AZ 85016</p>			
 <p>SIGNATURE: Thomas D. MacBlain</p>			
<p>NAME: _____</p>			
<p>24,583</p>			
<p>REGISTRATION NUMBER: _____</p>			

09/806540

Certificate of Mailing by Express Mail

JCS Rec'd PCT/PTO

30 MAR 2001

I certify that these documents are being deposited on
March 30, 2001 with the U.S. Postal Service "Express
Mail Post Office to Addressee" service under 37 C.F.R. 1.10 and is
addressed to Assistant Commissioner for Patents, Box PCT,
Washington, D.C. 20231.

Bertha Woodward

Signature of Person Mailing Correspondence

Bertha Woodward

Typed or Printed Name of Person Mailing Correspondence

EL624549221US

U.S. Express Mail Label No.

File No. 9138-32

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Gust et al.

Examiner:

International

Application No.: PCT/US99/23012

Art Unit:

International

Filing Date : 01 October 99

Priority Date

Claimed : 01 October 98

For : Magnetic Switching of Charge Separation
Lifetimes in Artificial Photosynthetic
Reaction Centers

Date: March 30, 2001

LETTERAssistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Please note that a Power of Attorney accompanies the
attached Combined Declaration executed by all inventors.

Please address all correspondence to:

Thomas D. MacBlain
Gallagher & Kennedy
2575 East Camelback Road
Phoenix AZ 85016

Respectfully submitted,

GALLAGHER & KENNEDY

By: 
Thomas D. MacBlain
Patent Office Reg. No. 24,583

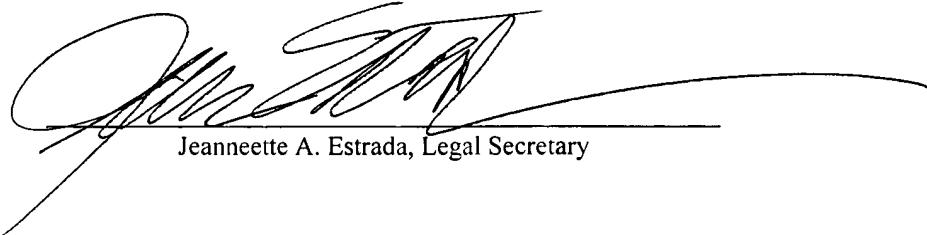
Date: 3/30/01

Attorney for Applicant
602-530-8088

CERTIFICATE OF EXPRESS MAILING UNDER 37 C.F.R. 1.10.

I hereby certify that this document (and any as referred to as being attached or enclosed) is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" service, mailing label No. **EL915426956US** on **August 9, 2001** and addressed to the Assistant Commissioner for Patents, Box PCT, Washington, D.C. 20231.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.



Handwritten signature of Jeanneette A. Estrada, Legal Secretary, in black ink. The signature is fluid and cursive, with a large, stylized 'J' at the beginning.

Jeanneette A. Estrada, Legal Secretary